

PATENT SPECIFICATION



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PROVISIONAL SPECIFICATION

Improvements relating to Brackets for Use in Conjunction with
Curtain Suspension Devices

We, ARTHUR CLAY and JOHN CHARLES WICKER, both of No. 21, St. Paul's Square, Birmingham 3, and both British subjects, do hereby declare the nature of this invention to be as follows:—

This invention has reference to improvements relating to brackets for use in conjunction with curtain suspension devices and is concerned particularly with brackets for use with curtain suspension devices of the kind wherein the curtains are suspended from runners adapted to be supported from and traversed along a rail or track secured to the ceiling or to the framing of a casement, or the like, and wherein the rail, runners and curtain suspension hooks are protected from dust and partially obscured by a shield in the form of a strip disposed in front of the device.

In connection with curtain suspension devices of the aforesaid kind it has been proposed heretofore to provide a dust shield with a projection on the rear side which is engaged with brackets whereby the shield is supported from the framing of the casement and the present invention has for its object the provision of an improved bracket for supporting dust shields of the kind hereinbefore referred to which is simple in construction and which admits of the ready detachment of the shield when required.

The invention consists of an improved bracket for supporting dust shields for use with curtain suspension devices of the kind hereinbefore referred to incorporating an outwardly projecting arm, a pivotally mounted member carried by said arm adjacent the outer end thereof said member and the outer end of the arm being adapted to accommodate the projection at the rear of the dust shield and an actuating means for moving the pivotal member into and for maintaining it in the holding position when required.

The invention further resides in the details of construction of the improved bracket for supporting dust shields of curtain suspension devices of the kind hereinbefore referred to to be described hereinafter.

A convenient embodiment of the inven-

tion will now be described in its application to a curtain suspension device wherein the dust shield is in the form of a strip of metal provided on the rear side and adjacent to the upper edge with a rearwardly directed projection of a triangulated shape in cross-section the base of the triangle being disposed to the rear.

According to the said embodiment of the invention the improved bracket is formed from sheet metal and comprises a horizontally disposed outwardly projecting arm provided along each side with an upstanding flange gradually increasing in depth from the rear towards the front. At the rear end the bracket is provided with a section of a right angled shape adapted to fit over the box end of a bracket for supporting curtain rails of known construction, the vertical and horizontal flanges of the said section being provided with holes whereby the bracket may be secured by the same screw which is employed for holding the box ended rail supporting bracket in position.

At the front end the said arm is provided with a depending vertical portion adapted to abut the rear face of the shield.

The flange at the outer end of the arm is cut away to accommodate the base and lower side of the projection on the rear side of the shield. Adjacent to the outer end the sides of the shorter arm are provided with holes through which is passed a longitudinally disposed pin upon which is pivotally mounted a member the outer end of which is disposed above the cut away portion of the sides of the arm, the said outer end of the pivotal member being cut away to co-operate with the cut-away section of the sides of the arm when the said member is moved into engagement with the projecting portion at the rear of the dust shield.

The pivotal member is pivoted in the manner of a lever of the first order and the rear arm of the said member co-operates with an upwardly directed teat formed in an arm of a horizontally disposed lever catch pivotally mounted on the said arm and having an actuating portion adapted to project through a

slot in the sides of the said outstanding arm.

It will be appreciated that when the actuating portion of the lever catch is moved to bring the teat below the rearward section of the pivotal member the forward portion of the said member is moved downwardly whereupon after the shaped portions of the pivotal member and of the sides of the outstanding arm have been engaged with the projection at the rear of the dust shield by an endwise sliding movement, the said shield may be locked to the brackets by causing the said shaped end of the pivotal member to be moved downwardly and maintained in

the downwardly pressed position by the lever catch.

It will be understood that the pivotal member in conjunction with the abutment on the arm ensure a secure fixing of the dust shield and, furthermore, the lever catch admits of the ready release of the pivotal member when it is required to detach the dust shield.

Dated this 15th day of September, 1933.

GEORGE SHAW, BOWKER &
FOLKES,

Chartered Patent Agents,
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Agents for the Applicants.

COMPLETE SPECIFICATION

Improvements relating to Brackets for Use in Conjunction with Curtain Suspension Devices

We, ARTHUR CLAY and JOHN CHARLES WICKER, both of No. 21, St. Paul's Square, Birmingham, 3, and both British Subjects, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention has reference to improvements relating to brackets for use in conjunction with curtain suspension devices and is concerned particularly with brackets for use with curtain suspension devices of the kind wherein the curtains are suspended from runners adapted to be supported from and traversed along a rail or track secured to the ceiling or to the framing of a casement, or the like, and wherein the rail, runners and curtain suspension hooks are protected from dust and partially obscured by a shield in the form of a strip disposed in front of the device.

In connection with curtain suspension devices of the aforesaid kind it has been proposed heretofore to provide a dust shield with a projection on the rear side which is engaged with brackets whereby the shield is supported from the framing of the casement and the present invention has for its object the provision of an improved bracket for supporting dust shields of the type having a projection on the rear side thereof, which is simple in construction and which admits of the ready detachment of the shield when required.

The invention consists of an improved bracket for supporting dust shields for use with curtain suspension devices of the type hereinbefore referred to incorporating an outwardly projecting arm, a pivot-

ally mounted member carried by said arm adjacent the outer end thereof said member and the outer end of the arm being adapted to accommodate the projection at the rear of the dust shield and a movable actuating means separate from pivotal member for moving said pivotal member into and for maintaining it in the holding position when required.

The invention further resides in the details of construction of the improved bracket for supporting dust shields of curtain suspension devices of the kind hereinbefore referred to to be described hereinafter.

The invention will now be described with particular reference to the accompanying sheet of drawings which illustrate the invention in its application to a curtain suspension device of known kind employing a dust shield in the form of a strip of metal provided on the rear side and adjacent to the upper edge with a rearwardly directed projection of a triangulated shape in cross-section the base of the triangle being disposed to the rear.

In the drawings:—

Figure 1 is a view mainly in side elevation illustrating the improved bracket in use.

Figure 2 is a plan of Figure 1.

Figure 3 is a perspective view of the improved bracket on an enlarged scale illustrating the positions occupied by the several parts when they are in the retaining position.

The improved bracket is formed from sheet metal and comprises a horizontally disposed outwardly projecting arm 4^a provided along each side with an upstanding flange 4^b gradually increasing in depth from the rear towards the front. At the

rear end the bracket is provided with a section 4^a of a right angled shape adapted to fit over the box end of a bracket 6 for supporting the curtain rail 7, the vertical 5 and horizontal flanges of the said section 4^a being provided with holes whereby the improved bracket may be secured by the same screw 8 which is employed for holding the box ended rail supporting bracket 10 6 in position.

At the front end the said arm is provided with a depending vertical portion 4^a adapted to abut the rear face of the shield 9.

15 The flanges 4^b at the outer end of the arm 4^a are cut away as at 4^c to accommodate the base and lower side of the projection 9^a on the rear side of the shield 9. Adjacent to the outer end the side flanges 20 4^b are provided with holes through which is passed a longitudinally disposed pin 10 upon which is pivotally mounted a member 11 the outer end of which is disposed above the cut-away portions 4^c of the side 25 flanges 4^b, the said outer end of the pivotal member 11 being cut away at 11^a to co-operate with the cut-away sections 4^c of the side flanges 4^b when the said member 11 is moved into engagement with the 30 projecting portion 9^a at the rear of the dust shield 9.

The pivotal member 11 is pivoted in the manner of a lever of the first order and the rear arm of the said member co- 35 operates with an upwardly directed cam 12^a formed in an arm of a horizontally disposed lever catch 12 pivotally mounted on the said arm 4^a and having an actuating portion 12^b which projects through a 40 slot 4^f in one of the side flanges 4^b.

It will be appreciated that when the actuating portion 12^b of the lever catch 12 is moved to bring the cam 12^a below the rearward section of the pivotal member 45 11 the forward portion of the said member 11 is moved downwardly whereupon after the shaped portions of the pivotal member and of the sides of the outstanding arm 11^a and 4^c respectively have been 50 engaged with the projection 9^a at the rear of the dust shield 9 the said shield 9 may be locked to the bracket by causing the said shaped end of the pivotal member 11 to be moved downwardly and maintained 55 in the downwardly pressed position by the lever catch 12.

It will be understood that the pivotal member 11 in conjunction with the abutment 4^a on the arm ensures a secure fixing of the dust shield 9 and that, furthermore, the lever catch 12 admits of the ready release of the pivotal member 11 when it is required to detach the dust 60 shield 9.

65 Having now particularly described and

ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is: —

1. A bracket for supporting dust 70 shields for use with curtain suspension devices of the type hereinbefore referred to incorporating an outwardly projecting arm, a pivotally mounted member carried 75 by said arm adjacent the outer end thereof of said member and the outer end of the arm being adapted to accommodate the projection at the rear of the dust shield and a movable actuating means separate 80 from the pivotal member for moving the said pivotal member into and for maintaining it in the holding position.

2. A bracket for supporting dust 85 shields for use with curtain suspension devices of the type hereinbefore referred to incorporating an outwardly projecting arm which is cut away adjacent to the 90 front end thereof to accommodate a part of the projection at the rear of the dust shield, a member pivotally mounted relatively to the projecting arm and provided at the forward end thereof with a shaped 95 portion adapted to accommodate a part of the projection at the rear of the dust shield, a lever fulcrumed on the projecting arm and adapted to co-operate with 100 the pivotal member so as to move the forward end thereof into and out of a retaining position relatively to the projection at the rear of the dust shield.

3. A bracket for supporting dust shields for use with curtain suspension devices, according to the preceding claim, wherein the lever is provided on one arm thereof with a cam surface which co- 105 operates with the pivotally mounted member, as and for the purpose specified.

4. A bracket for supporting dust shields for use with curtain suspension devices, according to Claims 1 and 2, 110 wherein the forwardly projecting arm is provided at the outer end thereof with a downwardly depending portion which abuts the rear of the dust shield, as and for the purpose specified. 115

5. A bracket for supporting dust shields for use with curtain suspension devices of the type hereinbefore referred to comprising in combination a horizontally disposed outwardly projecting arm, 120 means disposed at the rear of the said arm whereby the bracket may be secured by the same screw which is employed for holding in position a box ended rail supporting bracket of known kind, a member 125 pivotally mounted on the outwardly projecting arm adjacent the forward end thereof, a shaped portion at the forward end of the said arm adapted to accommodate a part of the projection at the rear 130

rear end the bracket is provided with a section 4° of a right angled shape adapted to fit over the box end of a bracket 6 for supporting the curtain rail 7, the vertical 5 and horizontal flanges of the said section 4° being provided with holes whereby the improved bracket may be secured by the same screw 8 which is employed for holding the box ended rail supporting bracket 10 6 in position.

At the front end the said arm is provided with a depending vertical portion 4° adapted to abut the rear face of the shield 9.

15 The flanges 4^b at the outer end of the arm 4° are cut away as at 4° to accommodate the base and lower side of the projection 9° on the rear side of the shield 9. Adjacent to the outer end the side flanges 20 4^b are provided with holes through which is passed a longitudinally disposed pin 10 upon which is pivotally mounted a member 11 the outer end of which is disposed above the cut-away portions 4° of the side 25 flanges 4^b, the said outer end of the pivotal member 11 being cut away at 11° to co-operate with the cut-away sections 4° of the side flanges 4^b when the said member 11 is moved into engagement with the 30 projecting portion 9° at the rear of the dust shield 9.

The pivotal member 11 is pivoted in the manner of a lever of the first order and the rear arm of the said member co- 35 operates with an upwardly directed cam 12° formed in an arm of a horizontally disposed lever catch 12 pivotally mounted on the said arm 4° and having an actuating portion 12^b which projects through a 40 slot 4^f in one of the side flanges 4^b.

It will be appreciated that when the actuating portion 12^b of the lever catch 12 is moved to bring the cam 12° below the rearward section of the pivotal member 45 11 the forward portion of the said member 11 is moved downwardly whereupon after the shaped portions of the pivotal member and of the sides of the outstanding arm 11° and 4° respectively have been 50 engaged with the projection 9° at the rear of the dust shield 9 the said shield 9 may be locked to the bracket by causing the said shaped end of the pivotal member 11 to be moved downwardly and maintained 55 in the downwardly pressed position by the lever catch 12.

It will be understood that the pivotal member 11 in conjunction with the abutment 4^f on the arm ensures a secure fixing of the dust shield 9 and that, further- 60 more, the lever catch 12 admits of the ready release of the pivotal member 11 when it is required to detach the dust shield 9.

65 Having now particularly described and

ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is: —

1. A bracket for supporting dust 70 shields for use with curtain suspension devices of the type hereinbefore referred to incorporating an outwardly projecting arm, a pivotally mounted member carried 75 by said arm adjacent the outer end thereof of said member and the outer end of the arm being adapted to accommodate the projection at the rear of the dust shield and a movable actuating means separate 80 from the pivotal member for moving the said pivotal member into and for maintaining it in the holding position.

2. A bracket for supporting dust 85 shields for use with curtain suspension devices of the type hereinbefore referred to incorporating an outwardly projecting arm which is cut away adjacent to the 90 front end thereof to accommodate a part of the projection at the rear of the dust shield, a member pivotally mounted relatively to the projecting arm and provided at the forward end thereof with a shaped 95 portion adapted to accommodate a part of the projection at the rear of the dust shield, a lever fulcrummed on the projecting arm and adapted to co-operate with 100 the pivotal member so as to move the forward end thereof into and out of a retaining position relatively to the projection at the rear of the dust shield.

3. A bracket for supporting dust 105 shields for use with curtain suspension devices, according to the preceding claim, wherein the lever is provided on one arm thereof with a cam surface which co-operates with the pivotally mounted member, as and for the purpose specified.

4. A bracket for supporting dust 110 shields for use with curtain suspension devices, according to Claims 1 and 2, wherein the forwardly projecting arm is provided at the outer end thereof with a downwardly depending portion which 115 abuts the rear of the dust shield, as and for the purpose specified.

5. A bracket for supporting dust 120 shields for use with curtain suspension devices of the type hereinbefore referred to comprising in combination a horizontally disposed outwardly projecting arm, 125 means disposed at the rear of the said arm whereby the bracket may be secured by the same screw which is employed for holding in position a box ended rail supporting bracket of known kind, a member 130 pivotally mounted on the outwardly projecting arm adjacent the forward end thereof, a shaped portion at the forward end of the said arm adapted to accommodate a part of the projection at the rear

of the dust shield, a shaped portion at the front of the pivotal member adapted to accommodate a part of the projection at the rear of the dust shield, a lever
5 fulcrummed on the arm and having a cam or projection on one arm thereof adapted to co-operate with the pivotal member for forcing the said member into and maintaining it in the retaining position rela-
10 tively to the projection at the rear of the dust shield and a depending portion at the forward end of the arm adapted to abut the rear face of the dust shield.

6. A bracket for supporting dust shields for use with curtain suspension devices of 15 the kind hereinbefore referred to constructed, arranged and adapted for use substantially as herein described with reference to the accompanying drawings.

Dated this 14th day of September, 1934.

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